

EG&G ROCKY FLATS, INC.

July 23, 1991

91-RF-4143

Robert M. Nelson, Jr.
Manager
DOE, RFO

Attn: F. R. Lockhart


TRANSMITTAL OF HAYSTACK FIRE SITE SOIL AND ASH SAMPLES - JEE-0137-91

Enclosed are results of soil and ash samples taken from the site of the haystack fire that occurred May 21, 1991 on City of Broomfield property. The haystack is located approximately one-half mile east of Indiana Street, directly opposite the east entrance to RFP. The samples were taken by EG&G Rocky Flats personnel following the fire to address potential adverse health effects to firefighting personnel who responded to the scene.

The hay involved in the fire was purchased several years ago from an off-site supplier for erosion control and mulching purposes as part of planned remediation efforts in the area. The soil and ash sample results were consistent with previously reported historical data. The average soil samples were 2.7 picocuries per gram (pCi/g), and the average ash samples were 0.53 pCi/g. Risk characterization shows that ingestion of 100 grams of this soil would result in an estimated 50-year dose of 0.1 millirem. For comparison, the average background dose received each day by Denver area residents is approximately one millirem.

The Colorado Department of Health (CDH), Radiation Control Division, also took samples after the fire. CDH will present their findings at the next Environmental Monitoring Council meeting on July 30, 1991. To present a more complete report, we should provide CDH with our data.

The enclosed results should be sent to Rob Terry of the CDH, Radiation Control Division. Please contact Michael Guillaume of Remediation Programs at extension 4291 if you have any questions.


J. E. Evered, Director
Environmental Management

MG:dmf

Orig. and 3 cc - R. M. Nelson, Jr.

**Enclosure:
As Stated**

cc:
R. H. Birk - DOE, RFO

ADMIN RECCRD

SW-A-003890